

Title (en)

PIXEL, DISPLAY DEVICE HAVING SAME AND DRIVING METHOD THEREOF

Title (de)

PIXEL, ANZEIGEVORRICHTUNG DAMIT UND ANSTEUERUNGSVERFAHREN DAFÜR

Title (fr)

PIXEL, DISPOSITIF D'AFFICHAGE COMPORTANT CELUI-CI ET SON PROCÉDÉ D'ENTRAÎNEMENT

Publication

EP 3866151 A4 20220629 (EN)

Application

EP 19870645 A 20190408

Priority

- KR 20180119972 A 20181008
- KR 2019004163 W 20190408

Abstract (en)

[origin: EP3866151A1] A pixel may include a first light source unit including at least one first light emitting element connected between a first split electrode and a second power supply; a second light source unit including at least one second light emitting element connected between a second split electrode and the second power supply; a driving-current generator including a first transistor connected between a first power supply and the first and second light source units and generating a driving current corresponding to a first data signal supplied to a first data line; a first switching unit including a first switching element connected between the driving-current generator and the first light source unit; and a second switching unit including a second switching element connected between the driving-current generator and the second light source unit and controlling a connection between the first transistor and the second light source unit in response to a second data signal supplied to a second data line.

IPC 8 full level

G09G 3/32 (2016.01)

CPC (source: EP KR US)

G09G 3/2007 (2013.01 - US); **G09G 3/32** (2013.01 - EP KR US); **G09G 2300/0426** (2013.01 - EP US); **G09G 2300/0439** (2013.01 - US); **G09G 2300/0465** (2013.01 - EP); **G09G 2300/0804** (2013.01 - EP); **G09G 2300/0809** (2013.01 - US); **G09G 2300/0819** (2013.01 - EP); **G09G 2300/0852** (2013.01 - EP); **G09G 2300/0861** (2013.01 - EP); **G09G 2310/0243** (2013.01 - KR US); **G09G 2310/0251** (2013.01 - EP); **G09G 2310/0262** (2013.01 - EP); **G09G 2310/027** (2013.01 - US); **G09G 2310/0272** (2013.01 - US); **G09G 2310/08** (2013.01 - US); **G09G 2330/00** (2013.01 - US)

Citation (search report)

- [XY] KR 20160078618 A 20160705 - LG DISPLAY CO LTD [KR]
- [Y] US 2018175106 A1 20180621 - KIM DAE HYUN [KR], et al
- [Y] WO 2015032140 A1 20150312 - BOE TECHNOLOGY GROUP CO LTD [CN], et al
- [IY] EP 3273435 A1 20180124 - SAMSUNG DISPLAY CO LTD [KR]
- See also references of WO 2020075934A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3866151 A1 20210818; **EP 3866151 A4 20220629**; CN 112823385 A 20210518; KR 102568250 B1 20230822; KR 20200040347 A 20200420; US 11488520 B2 20221101; US 11783764 B2 20231010; US 2021390902 A1 20211216; US 2023049527 A1 20230216; US 2024038152 A1 20240201; WO 2020075934 A1 20200416

DOCDB simple family (application)

EP 19870645 A 20190408; CN 201980066111 A 20190408; KR 20180119972 A 20181008; KR 2019004163 W 20190408; US 201917283771 A 20190408; US 202217977580 A 20221031; US 202318482191 A 20231006